Sally Munk

From: Jamie Erken <jamie.erken@innerwest.nsw.gov.au>
Sent: Monday, 17 October 2016 4:09 PM
To: Sally Munk
Subject: FW: Request for Secretary's Environmental Assessment Requirements - Boral St Peters

Hi Sally,

Please find attached comments from Council's Environmental Engineer regarding surface water. Can you let me know if this detail should be provided to the proponent when they seek to carry out stakeholder engagement or if it can/would be included in the SEAR's.

Regards

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INNER WEST COUNCIL

Council acknowledges the Traditional Custodians of this land, the Gadigal-Wangal people of the Eora Nation.

From: Sadeq Zaman
Sent: Monday, 17 October 2016 3:43 PM
To: Jamie Erken; Jean Brennan
Subject: RE: Request for Secretary's Environmental Assessment Requirements - Boral St Peters

Hi Jamie,

Please see below some comments on section 6.5 (surface water) of the document for SEAR.

Section 6.5 – surface water

Inner West Council is currently undertaking the flood study for Alexandra Canal Catchment which includes the Boral Site at 25 Burrows Rd, St Peters. The modelling works for the flood study are complete. The modelling results will need to be used to determine the flood levels along the south-east edge of the site (adjacent to Alexandra Canal) under a range of recurrence intervals.

Figure 2.1 of the document shows the existing water management facility. This appears to be a first flush system. No details are available on storage and operational conditions of the facility. Assumed, it stores the runoff from the early stage of rainfall events and traps contamination from first flush. The rainfall volume in excess of the storage capacity appears to be bypassed and discharged to Alexandra Canal.

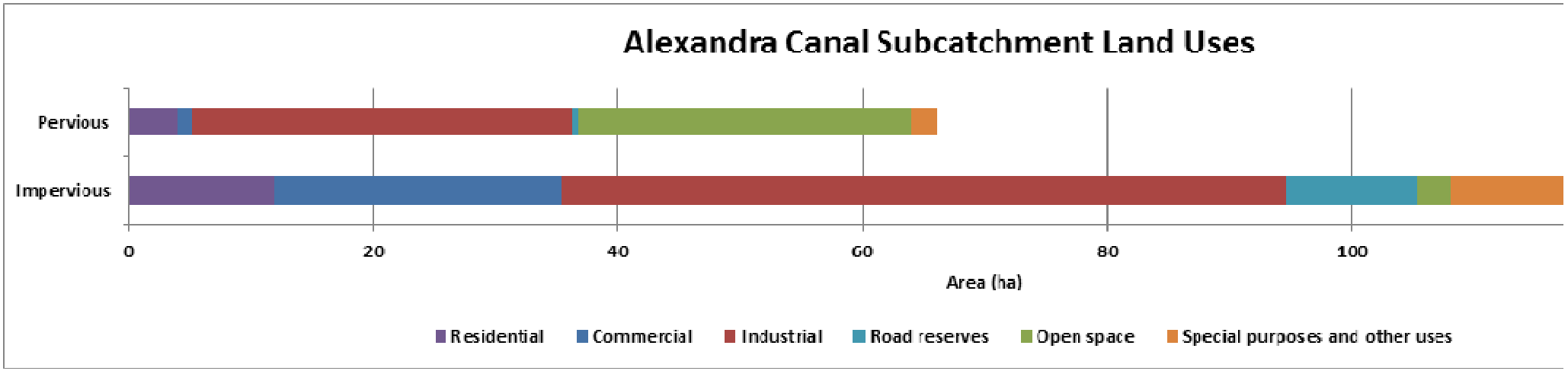
Could we have the details on the current arrangement of the storage facility including the site drainage network and operational protocols of the storage facility? How the stored water is used for dust suppression at site? Assumed, water from the storage is pumped into a dust suppression tanker and then used at site. Could we have the details on the amount of water from the storage facility and potable water used for dust suppression on a yearly basis? Does Boral have the records on the volume of runoff from the site discharges to Alexandra Canal on an annual basis?

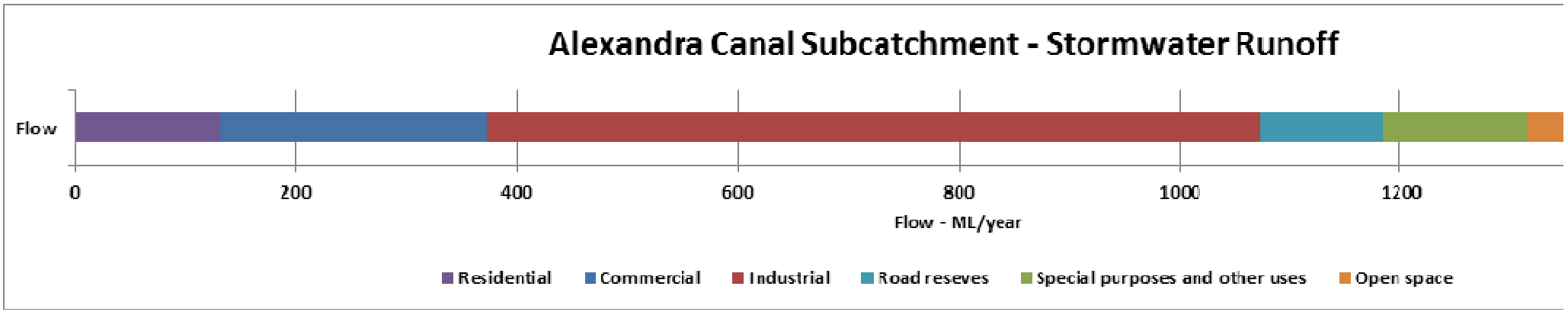
There will be requirements for additional water for dust suppression in the upgraded conditions of the plant. This would require a larger storage facility for intercepting on-site stormwater runoff to minimise the usage of high-grade potable water for dust suppression. A detailed analysis and modelling would be required to determine the upgraded footprint of the runoff storage facility and its operational protocols including the by-pass stormwater volume to Alexandra Canal from the site on an annual basis.

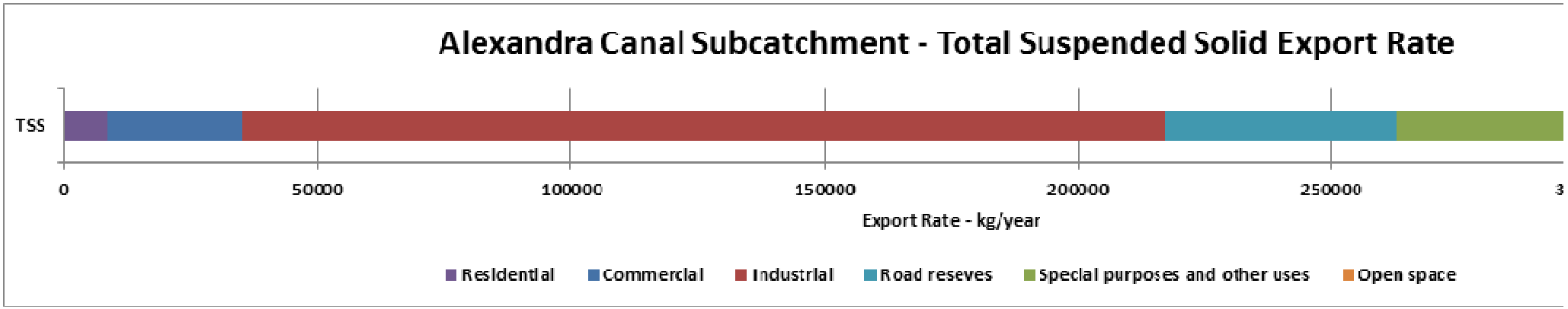
The industrial discharges are the major pollutant contributors to Alexandra Canal, contributing around 50% of the total pollutants from the catchment located within Inner West Council. The charts on the pollutant export rates are based on the recent works completed for Alexandra Canal. There will be requirements for the implementation of water quality management facilities (such as stormwater harvesting options and bioretention systems) to minimise and /or eliminate the water quality impacts from the site to Alexandra Canal. The targets for water quality reduction parameters (i.e. TSS, TP and TN) need to be based on Botany Bay Water Quality Improvement Criteria.

Regards,
Sadeq Zaman

Source: The charts are based on the analysis works undertaken in 2016 for Alexandra Canal Catchment (Inner West Council's Area).


Alexandra Canal Subcatchment Land Uses
Pervious
Impervious
0
20
40
60
80
100
Area (ha)
Residential
Commercial
Industrial
Road reserves
Open space
Special purposes and other uses


Alexandra Canal Subcatchment - Stormwater Runoff
Flow
0
200
400
600
800
1000
1200
Flow - ML/year
Residential
Commercial
Industrial
Road reseves
Special purposes and other uses
Open space


Alexandra Canal Subcatchment - Total Suspended Solid Export Rate
TSS
0
50000
100000
150000
200000
250000
Export Rate - kg/year
Residential
Commercial
Industrial
Road reseves
Special purposes and other uses
Open space